



Environmental Protection and Growth Management Department

ENVIRONMENTAL ENGINEERING AND PERMITTING DIVISION

1 North University Drive, Mailbox 201, Plantation, Florida 33324 • 954-519-1483 • FAX 954-519-1412

Via E-mail to Mike Nichols of M.J. Nichols & Associates, LLC

Tamarac Industrial Venture, LLC.
c/o Malcolm Butters
6820 Lyons Technology Circle #100
Coconut Creek, Florida 33073

Dear Mr. Butters:

This is to notify you of the Environmental Protection and Growth Management Department's action concerning your application received August 7, 2020, for authorization to construct a mitigation area at 6899 North Hiatus Road in the City of Tamarac, Florida. The application has been reviewed for an Environmental Resource License.

Broward County - Environmental Resource License (ERL) Review – Granted

The Department has reviewed the project for compliance with Aquatic and Wetland Resource Protection Ordinance Sec. 27-331 through 27-341 of the Broward County Code. Based on the information submitted, Environmental Resource License No. **DF20-1214** is hereby issued. The above-named licensee is hereby authorized to perform the work per the approved drawings(s), plans, documents and specifications as submitted by the licensee, and made a part hereof. The above referenced approvals will remain in effect subject to the attached Broward County General Conditions, Broward County Specific Conditions, and stamped exhibits.

The issuance of this license is a **final agency determination**. A person with a substantial interest may file a petition to request review of, or to intervene in a review of, a final administrative determination, subject to the provisions of Section 27-14, Broward County Code of Ordinances (excerpt attached).

Sincerely,

Linda Sunderland

Linda Sunderland, NRS
Natural Resources Section Manager

September 9, 2020

Date

ENC:

1. Environmental Resource License
2. Sec. 27-14 Administrative Review Procedures (4 pages)
3. One copy of stamped drawings (4 pages)

CC:

1. USACOE-PBG (via e-mail)
2. Brandon Justice, Broward County (via e-mail)



Environmental Protection and Growth Management Department

ENVIRONMENTAL ENGINEERING AND PERMITTING DIVISION

1 North University Drive, Mailbox 201, Plantation, Florida 33324 • 954-519-1483 • FAX 954-519-1412

ENVIRONMENTAL RESOURCE LICENSE

LICENSEE: Tamarac Industrial Venture, LLC.
c/o Malcolm Butters
6820 Lyons Technology Circle #100
Coconut Creek, Florida 33073

LICENSE NO: DF20-1214
PROJECT:
Commercial –
Mitigation Site

This license is issued under the provision of Chapter 27 of the Broward County Code of Ordinances also cited as Broward County Natural Resource Protection Code hereinafter called the Code. The above-named applicant, hereinafter called licensee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications as submitted by applicant, and made a part hereof and specifically described as follows:

Description of Work: This project involves the construction of a 2.57-acre wetland area (1.79 acre creation – includes 0.12 acre off-site marsh creation, 0.55 acre restoration, and 0.23 acre buffer area), as licensed in DF10-1031, and encumbered by Conservation Easement in Broward County Records Instrument # 112136592 (includes 2.447-acre on-site wetland area). The off-site 0.12-acre marsh wetland creation is a permitted improvement within Conservation Easement in Broward County Records Instrument # 100550066 (DF00-1005).

Location of Work: This project is located at 6899 North Hiatus Road, Section 07, Township 49 South, Range 41 East, in the City of Tamarac, Florida. Folio Number 494107160010.

Construction shall be in accordance with submitted ERL Application Form received on 08/07/2020, and all additional information submitted; plans stamped by the Department on 09/09/2020 (attached); and with all General and Specific Conditions of this license.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are accepted by the licensee and enforceable by Environmental Protection and Growth Management Department (EPGMD) pursuant to Chapter 27 of the Broward County Code of Ordinances. EPGMD will review this license periodically and may revoke the license, initiate administrative and/or judicial action for any violation of the conditions by the licensee, its agents, employees, servants or representatives or principals.
2. This license is valid only for the specific uses set forth in the license application, and any deviation from the approved uses may constitute grounds for revocation and enforcement action by EPGMD.
3. In the event the licensee is temporarily unable to comply with any of the conditions of the license, the licensee shall notify EPGMD within twelve (12) hours. Within five (5) working days of the event, the licensee shall submit a written report to EPGMD that describes the incident, its cause, the measures being taken to correct the problem and prevent its reoccurrence, the owner's intention toward repair, replacement, and reconstruction of destroyed facilities, and a schedule of action leading toward operation within the license conditions.
4. The issuance of this license does not convey any vested rights or exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights, or any violations of federal, state or local laws or regulations.
5. This license must be available for inspection on the licensee's premises during the entire life of the license.
6. By accepting this license, the licensee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, that are submitted to EPGMD, may be used by EPGMD as evidence in any enforcement proceeding arising under Chapter 27 of the Broward County Code of Ordinances, except where such use is prohibited by § 403.111, F.S.
7. The licensee agrees to comply with Chapter 27 of the Broward County Code of Ordinances, as amended.
8. Any new owner of a licensed facility shall apply by letter for a transfer of license within thirty (30) days after sale or legal transfer. The transferor shall remain liable for performance in accordance with the license until the transferee applies for, and is granted the transfer of license. The transferee shall also be liable for performance in accordance with the license.
9. The licensee, by acceptance of this license, specifically agrees to allow access to the licensed source at reasonable times by EPGMD personnel for the purposes of inspection and testing to determine compliance with this license and Chapter 27 of the Broward County Code of Ordinances.
10. This license does not constitute a waiver or approval of any other license that may be required for other aspects of the total project.
11. If the licensee wishes to renew a license or extend its term, the licensee shall make application sixty (60) days prior to its expiration. Expired licenses are not renewable.
12. In addition to the general conditions set forth above, each license issued by EPGMD shall contain specific conditions determined by site conditions and requirements pursuant to the regulations as determined by the director of EPGMD. The licensee agrees that specific conditions are enforceable by EPGMD for any violation thereof.
13. Enforcement of the terms and provisions of this license shall be at the reasonable discretion of EPGMD, and any forbearance on behalf of EPGMD to exercise its rights hereunder in the event of any breach by the licensee, shall not be deemed or construed to be a waiver of EPGMD's rights hereunder.

SPECIFIC CONDITIONS:

A. STANDARD CONDITIONS

1. **Notify the Department in writing a minimum of 48 hours prior to project commencement and a maximum of 48 hours after project completion.** Commencement notification should include such information as the intended start date, estimated duration of construction, and the name and contact information of the firm contracted to do the work. Failure to comply with this condition may result in enforcement action.
2. Any project causing environmental problem(s) shall be reported immediately to the Department's Environmental Response Line at 954-519-1499.
3. All project generated solid waste and/or spoil material must be disposed of in a suitable approved manner in accordance with current regulations at an upland location (not including surface waters and wetlands).
4. Turbidity screens, silt fences, or equivalent shall be properly employed and maintained as necessary to effectively contain suspended sediments and/or runoff during construction activities. **Dredging, filling, excavation, seawall removal, seawall construction, and other projects which result in similar degrees of disturbance to wet sediments shall in all cases employ turbidity control measures designed to effectively enclose the entire work area.**
5. Turbidity levels shall be monitored and recorded if a visible turbidity plume is observed leaving the site during construction activities. If monitoring reveals that turbidity levels exceed 29 NTU's above natural background 50 feet downstream of the point of discharge, project activities shall immediately cease, and work shall not resume until turbidity levels drop to within these limits [62-302.530(69) FAC].

B. CONSTRUCTION CONDITIONS

1. No dredging is authorized by this license.
2. If the approved license drawings and/or license attachments/plans conflict with the specific conditions, then the specific conditions shall prevail.
3. Demolition and construction related debris must be disposed of at an approved upland location and may not be left in the wetlands or any surface waters.
4. This license does not eliminate the necessity to obtain any required federal, state, local or special district authorizations prior to the start of any activity approved by this license.

C. TURBIDITY CONDITIONS

1. The contractor shall be responsible to have functional turbidity monitoring equipment on site during all construction activities and shall be responsible for training construction personnel in its calibration, operation, and related license requirements.
2. If a visible turbidity plume is observed leaving the site at any time, the licensee shall:
 - (a) Immediately cease all work contributing to the water quality violation. Operations may not resume until the Department gives authorization to do so.
 - (b) Notify the Department's call in number immediately at (954) 519-1499, referencing the license number and project name.
 - (c) Stabilize all exposed material contributing to the water quality violation. Identify and remedy the work procedures that were responsible for the violation (i.e. dredging too rapidly, excessive tidal flow, etc.), and install more turbidity containment devices and/or repair any non-functioning turbidity containment devices.

3. Connected turbidity curtain segments shall be overlapped and tied at the top and bottom to prevent turbidity from escaping through gaps between segments.
4. Turbidity curtains shall be deployed to effectively encapsulate the work area without impeding flow.

D. COMPENSATORY MITIGATION CONDITIONS (ON-SITE)

1. Construction and installation of the Areas shall be in accordance with the attached plans and associated information.
2. **Construction of the mitigation area shall be concurrent with impacts to the jurisdictional wetland areas.**
3. The following steps must be taken prior to submittal of the Time-Zero monitoring report:
 - (a) The source for the plants and muck (a minimum of 12-inches of muck required) for the wetland area shall be submitted prior to commencement of work.
 - (b) Upon completion of the mitigation earthwork, the Licensee shall submit an as-built survey providing a Florida registered surveyor's certification of elevations in relation to design and surveyor verification of actual acreage for all licensed mitigation habitats;
 - (c) **Plant installation shall not begin until after the Department has approved the as-built survey.**
 - (d) Plant substitutions or planting plan alterations must be approved by the Department prior to installation.
 - (e) If there are conflicts with any other agency regarding the mitigation area, notify Brandon Justice immediately at 954-519-1228 or at BJustice@broward.org
4. Once condition D.3. has been approved a Time-Zero monitoring report may be submitted. The Time Zero report is required within 30 days earthwork approval and prior to any Certificate of Occupancy being issued for any structure on the site.
5. A viable wetland system shall be established that replicates a natural reference wetland in basic structure and function. In order to assure that the Area(s) become self-sustaining, the following criteria shall be met:
 - (a) A minimum of 80% coverage by desirable wetland species after a two (2) year period and demonstration of persistence for three (3) additional years.
 - (b) Less than 2% coverage by invasive exotic and undesirable species is allowable if plants are dispersed and not concentrated in any particular area. Exotic and undesirable species include, but are not limited to, Melaleuca, Australian pine, Brazilian pepper, Bischofia, torpedo grass, primrose willow, cattail, air potato, and Syngonium. Treatment efforts should be tailored to prevent these species from becoming reproductively mature.
 - (c) A minimum of 80% survival of each planted species shall be maintained each quarter. An exception to this condition may be allowed where species composition, density of planted and recruitment species, the overall wetland condition, as characterized by the growth rates and viability of the Areas are of higher quality, as determined by the Department.
 - (d) Hydrologic conditions and soil characteristics are in general conformity to those specified in plans. Data from the permanent surveyed staff gauges must be collected every two weeks and submitted with the quarterly monitoring reports.
6. Should the Department determine that the Areas are not achieving the listed criteria during some portion of the monitoring period, the licensee shall determine the reasons for failure and prepare plans that demonstrate clearly how the problem(s) will be corrected and submit such plans immediately to the Department for approval. Those plans shall be implemented within 30 days from the Departments written approval.
7. Introduction (direct or indirect) of Grass Carp (*Ctenopharyngodon idella*) is strictly prohibited. The Licensee shall properly employ and maintain Grass Carp exclusion devices as necessary to prevent entry into the area.

8. Permanent physical markers designating the preserve status of the wetland conservation area and buffer zones shall be placed around the entire perimeter of the mitigation area a maximum 100 feet apart. The markers shall be maintained in perpetuity.
9. The licensee shall be responsible for the successful completion of the mitigation work, including the monitoring and maintenance of the mitigation areas for the duration of the plan. The mitigation area shall not be turned over to another entity until the mitigation work is accomplished as licensed and staff has approved the Time Zero mitigation report.
10. Spoil generated from the excavation authorized by this license must be used on-site or placed in off-site uplands and contained in such a manner as to prevent erosion into wetlands or other surface waters.
11. The licensee shall provide any future purchaser(s) of this site with a copy of this license.
12. Required water quality treatment (including ½" dry pretreatment and/or 1" wet detention as required by the appropriate jurisdictional agencies) must be provided **prior to** discharge into any part of the licensed wetland mitigation area. The mitigation areas cannot be considered in, or used for, meeting stormwater treatment requirements. Stormwater from development that abuts the mitigation areas shall be routed away from the mitigation areas through swales or other conveyances and treated or discharged into treatment lakes at a distance adequate to maximize treatment prior to mixing with waters in the mitigation areas.
13. Permanent fencing shall be installed along the northern, eastern, and southern boundaries of the mitigation area/buffer.

E. FINANCIAL ASSURANCE

1. An original executed Joint Letter of Credit shall be submitted to the Department within thirty (30) days of license issuance with current owner as the grantor.
2. The Financial Assurance(s) include(s) construction, monitoring and maintenance costs with a 10% contingency for the total sum of \$135,410.00. After the time zero event and upon EPGMD review and approval of all information required in Specific Condition D.2, the licensee may request release of 35% of the total financial assurance. After two years of monitoring and maintenance and upon EPGMD review and approval, the licensee may request an additional 15% of the financial assurance. At the end of the five year maintenance and monitoring period and upon demonstration that the licensee has met the intent and all information requested in Specific Condition D.2 and D.3, and if necessary D.4., the licensee may request the release of the remaining financial assurance. All requests shall be made in writing to the Natural Resources Section of the Environmental Protection and Growth Management Department. The Licensee is advised that the financial assurance document must remain active until it is released by the Department and no portion of the Financial Assurance will be released by the Department until the Conservation Easement has been recorded.
3. The Financial Assurance(s) shall remain in effect until the Department has received, reviewed, and accepted the last mitigation monitoring report and determined that the project is in compliance.

F. A COPY OF THIS LICENSE SHALL BE KEPT ON SITE DURING ALL PHASES OF LICENSED CONSTRUCTION.

License No. DF20-1214
LICENSEE: Tamarac Industrial Venture, LLC.

Exhibit 1
Page 7 of 15

Recommended for approval by:

Michelle Decker
License Processor

Issued this 9th day of September 2020

Expiration Date: September 9th, 2022

**BROWARD COUNTY ENVIRONMENTAL PROTECTION AND
GROWTH MANAGEMENT DEPARTMENT**

Linda Sunderland

**LINDA SUNDERLAND, NRS
NATURAL RESOURCES SECTION MANAGER
ENVIRONMENTAL ENGINEERING AND PERMITTING DIVISION**

Sec. 27-14. Administrative review of EPGMD determinations.

- (a) A person with a substantial interest may file a petition to request review of or to intervene in a review of a final administrative determination made pursuant to this chapter concerning:
- (1) The requirement that a facility or activity obtain a license or environmental review approval.
 - (2) Interpretations of license or environmental review approval conditions.
 - (3) Interpretations of variance conditions.
 - (4) The decision to suspend or revoke a license or environmental review approval.
 - (5) The requirement of certain license conditions.
 - (6) The issuance of a license or environmental review approval.
 - (7) The denial of a license or environmental review approval.
 - (8) The scope of a license or environmental review approval, geographic or otherwise.
 - (9) The scope of a variance, geographic or otherwise.
 - (10) The issuance of a stop work order.
 - (11) Similar final administrative determinations.

This administrative review procedure shall be the only means of review available for the above final administrative determinations by either the petitioner or the intervenor (the parties).

- (b) person may not obtain review by this procedure of:
- (1) The issuance or adjudication of or other matters involving a notice of violation or a citation.
 - (2) Internal policy decisions
- (c) A person desiring a review of a staff determination made pursuant to this Chapter shall first bring the determination to the attention of the appropriate section supervisor to attempt to resolve the matter. If a resolution cannot be reached, then the decision shall be reviewed by successive supervisory levels until the issue is resolved or reaches the level of the director or his or her designee for the final determination.
- (d) A person desiring administrative review of a final determination made by the director or the designee shall file a petition with the director for review by the hearing examiner. The petition shall be filed within ten (10) days from the rendition of the action taken or of the decision made by the director. An entity whose license or approval is being challenged shall be a party to the action.
- (e) The review shall not be heard until the provisions of subsection (f) are met. Upon motion to the hearing examiner, an insufficient petition shall be dismissed with or without leave to refile. If a petition is determined to be insufficient by the hearing examiner and the petitioner has been given leave to refile by the hearing examiner, unless otherwise ordered by the hearing examiner, the petitioner must refile within ten (10) days of the rendition of the order of dismissal or the petition will be dismissed with prejudice.

- (f) A sufficient petition for review or petition for intervention in the review shall, at a minimum, contain the following information:
 - (1) The nature of the determination sought to be reviewed.
 - (2) A short, plain statement of the facts which form the subject matter upon which the determination was made as asserted by all parties of record at the time that the petition is filed; a statement of the material facts in dispute, if any. If any party is unable to state the matters in sufficient detail at the time initial petition is filed, the petition may be limited to a statement of the issues involved; and thereafter, upon timely written motion, a more definite and detailed statement shall be furnished not less than seven (7) days prior to the date set for the hearing.
 - (3) The specific determination for which the review is sought.
 - (4) The specific legal grounds upon which the parties seek review of the determination.
 - (5) A short statement of the petitioner's or the intervenor's substantial interest in the matter to be reviewed.
 - (6) The specific section of this chapter on which the decision is based, if known, and the specific section that the parties allege should control the decision, if known.
 - (7) A copy of the director's or the designee's written final determination.
 - (8) A statement of the relief requested stating precisely the action that the petitioner wants EPGMD to take with respect to the final determination.
- (g) All pleadings or other documents filed in the proceeding must be signed by a party, the party's attorney, or the party's qualified representative. The signature of a party, the party's attorney or a party's qualified representative constitutes a certificate that he or she has read the pleading or other document and that to the best of his or her knowledge, information, and belief formed after reasonable inquiry, it is not brought for any improper purposes, such as to harass or to cause unnecessary delay or for frivolous purpose or needless increase in the cost of litigation. If a pleading or other document is signed in violation of these requirements, the hearing examiner, upon motion or his or her own initiative, shall dismiss the matter.
- (h) A petitioner or intervenor may request an emergency hearing to stay all activities or work conducted pursuant to the challenged license or approval. Such petitioner or intervenor has the burden of proof to show by a preponderance of the evidence that the continued activities would cause substantial pollution or degradation to the environment. An emergency hearing shall be scheduled by EPGMD and be held within five (5) days of said request or as soon thereafter as possible subject to the availability of the hearing examiner. The petitioner or intervenor shall comply with the notice provisions of section 27-14(j)(2)a. and c. and section 27-14(j)(3) and (4) of this chapter.
- (i) The petition for review will not stay environmental protection activities required for the remediation or mitigation of a site or facility, the protection of the environment or the health, safety and welfare of the citizens of Broward County, or the prevention of further environmental degradation. The person responsible for these activities must take all necessary steps to prevent environmental degradation and must conduct the remediation or mitigation activities required by this chapter. The director may allow these activities to be delayed until after the hearing examiner's decision by certifying to

the hearing examiner that, by reason of facts stated in the certificate, a delay in the initiation or completion of these activities would not cause substantial environmental degradation or peril to life or property. The delay for conducting these activities may be subject to appropriate terms to ensure protection of the environment. The person responsible for these activities shall be responsible for any environmental damage or any violation of this chapter caused by the delay.

(j) Notice and Scheduling Requirements:

- (1) The hearing on the review shall be scheduled within a reasonable time. It shall be the responsibility of the petitioner to request through EPGMD that the hearing date be scheduled. It shall also be the responsibility of the petitioner to give notice in accordance with this section at least ten (10) days prior to the hearing.
 - (2) The petitioner shall give notice of the hearing by:
 - a. Giving personal notice to all proper parties; and
 - b. Publishing notice on two (2) days in a newspaper of general circulation in the county; and
 - c. Posting notice at a location determined by the Broward County Administrator's Office.
 - (3) The petitioner shall bear the cost of giving notice.
 - (4) The notice shall contain, at a minimum:
 - a. A description and location of the facility or the activity to be conducted by the petitioner; and
 - b. The time and place of the hearing.
- (k) The petitioner shall bear the cost of accurately and completely preserving all testimony and providing full or partial transcripts to all parties.
- (l) The hearing shall be a quasi-judicial hearing.
- (1) The applicant/petitioner requesting the administrative review, any intervenor/petitioner and EPGMD shall have an opportunity to respond to and to present witnesses, other evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of facts and orders, and to be represented by counsel. Members of the general public who are not intervenors as set forth in Section 27-14 of this chapter are not parties to the proceeding.
 - (2) When appropriate, the general public may be given an opportunity to present oral or written communications. If the hearing examiner proposes to consider such material, then all parties shall be given an opportunity to cross-examine, challenge or rebut it.
- (m) Denial, protest of, revocation, or suspension of a license, environmental review approval, or any other approval:
- (1) In regard to denial or protest of approval of a license and any other review of an administrative decision, notwithstanding (2) below, the petitioner shall have the burden of showing, by a preponderance of the evidence, that the determination of the director was an arbitrary and/or capricious abuse of discretion, not supported by competent, substantial evidence or not in conformance with the

essential requirements of this chapter. The hearing examiner shall not substitute his or her judgment for that of EPGMD on an issue of discretion even though the hearing examiner may have reached a different conclusion based on the same facts.

- (2) In an action to revoke or suspend a valid license or approval, the burden shall be upon EPGMD to prove, by a preponderance of the evidence in an administrative hearing, the grounds for revocation or suspension. The license holder or approval recipient shall be provided notice of the hearing and a copy of the petition stating the grounds for revocation or suspension as provided in section 27-63 of this chapter. The petition shall state with specificity the acts complained of in order to allow the license holder or approval recipient an opportunity to prepare a defense. The hearing shall be conducted in accordance with the provisions of Section 27-37 of this chapter.
- (n) Findings of fact shall be based exclusively on the evidence of record and on matters officially recognized.
- (o) If the hearing examiner finds that the director or his or her designee has erroneously interpreted a provision and that a correct interpretation compels a particular action, he or she shall remand the case to the director or his or her designee for further action under a correct interpretation of the provision.
- (p) The hearing examiner shall complete and submit to the director and all parties a final order consisting of his or her findings of fact and conclusions of law.
- (q) A party to the hearing may obtain appellate review of the final order as provided by section 27-42 of this chapter.
- (r) A petitioner or intervenor shall pay a filing fee at the time the application for review is filed. The amount of the filing fee shall be set by resolution of the Board.

(Ord. No. 2003-34, § 1, 9-23-03; Ord. No. 2005-08, § 2.03, 4-26-05)
Secs. 27-15--27-19. Reserved.

MITIGATION MONITORING AND MAINTENANCE PLAN

TEE/ASH PLAT, TRACT 10

**TAMARAC, FLORIDA
EPGMD LICENSE APPL. NO. DF10-1031
SFWMD APPLICATION NO. 100303-17**

APRIL 2, 2012

1. Representative photographic stations will be established to document the conditions of the proposed mitigation area. The stations will be permanently marked with a PVC pipe and panoramic photos will be taken.
2. Trees and shrubs will be counted along belt transects with growth and condition noted during each quarter.
3. Fish and wildlife observed during monitoring inspections will be noted within the report.
4. A Time Zero Monitoring report will be prepared indicating the number, type and size of planted material. Following that, annual monitoring reports will be submitted for five (5) years of monitoring.
5. An 80% success rate will be maintained and an 80% coverage rate of desirable wetland/transitional plants will be attained after two (2) years.
6. Exotic vegetation will be treated and maintained at 5% or less during the monitoring phase of the mitigation project. In addition, trash and debris will be removed during maintenance events.
7. Water level readings will be taken at the staff gauge location biweekly with results reported in the monitoring reports (quarterly).

M. J. Nichols & Associates, LLC

14657 93RD Street North
West Palm Beach, Florida 33412
(561) 753-0554
fax (561) 753-0389
www.mjnichols.com



TRANSITIONAL ZONE
SWM No. 2000-117-5 ERL No. DF10-103
3,260 SF (0.12 AC.)
ERP No. 06-02922-P-02 Exhibit No. 7
UPLAND BUFFER
9,810 SF (0.23 AC.)

The diagram consists of three rectangular boxes stacked vertically. The top box is labeled 'MARSH AREA' and contains eight small crosses arranged in a 3x3 grid with the center missing. To its right is the text '60,968 SF(1.40 AC.)'. The middle box is labeled 'SLOUGH' and contains a 4x4 grid of small squares. To its right is the text '16,728 SF(0.38 AC.)'. The bottom box is labeled 'TREE ISLANDS' and contains eight small circles arranged in a 3x3 grid with the center missing. To its right is the text '9,852 SF(0.23 AC.)'.

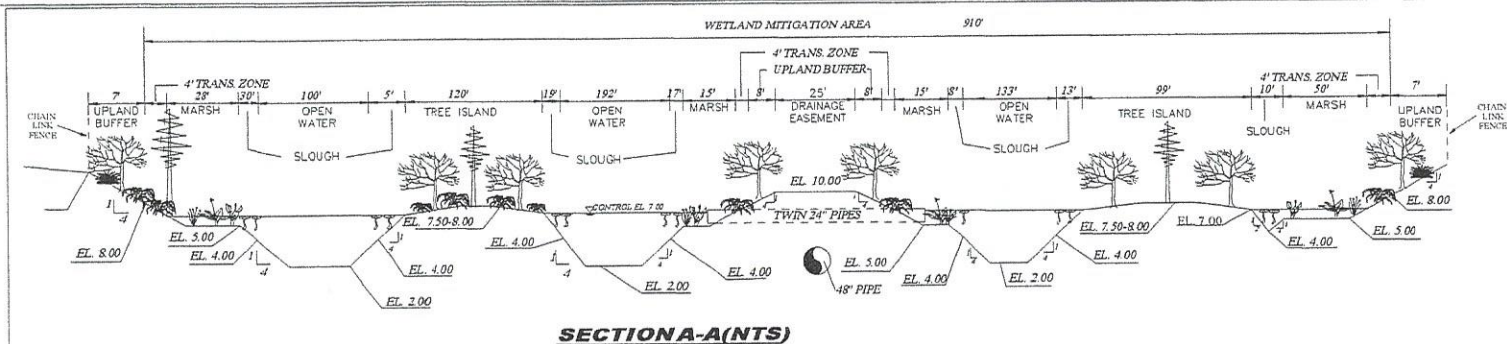
OPEN WATER
9,300 SF (0.21 AC.)

TRANSITIONAL ZONE
5,260 SF (0.12 AC.)

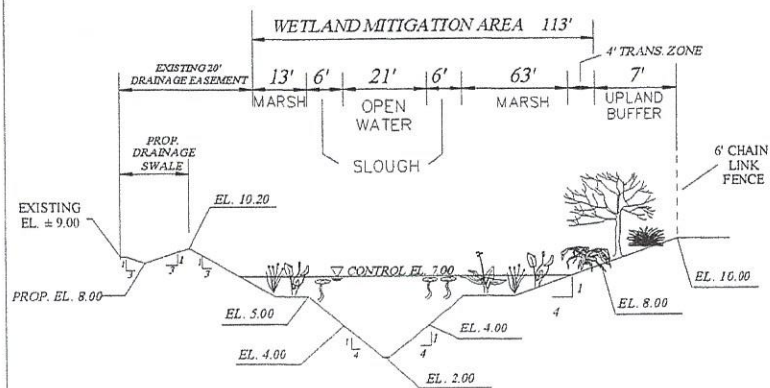
UPLAND BUFFER
9,810 SF (0.23 AC.)

DATE:	08/10
SCALE:	1"=200'
DESIGN BY:	MJN
DRAWN BY:	MJN
CHECKED BY:	MJN
APPROVED BY:	MJN

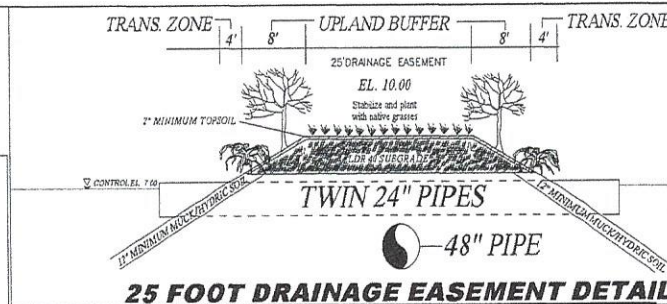
Broward County
Page 2 of 4
09/09/2020



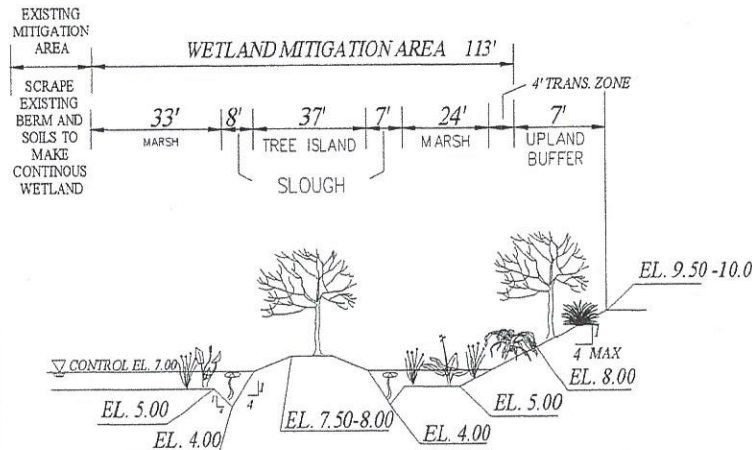
SECTION A-A(NTS)



SECTION B-B(NTS)



25 FOOT DRAINAGE EASEMENT DETAIL



SECTION C-C(NTS)

TEE/ASH PLATS, PORTION OF TRACT 10
FLORIDA
CITY OF TAMARAC
MITIGATION PLAN - SECTIONS
SHEET No.: 4

DATE	08/10
SCALE	NTS
DESIGN BY	M/J
DRAWN BY	M/J
CHECKED BY	M/J
APPROVED BY	M/J
DESCRIPTION	

M. J. NICHOLS & ASSOCIATES, LLC
14657 93rd St. N.
WEST PALM BEACH, FL 33412
TEL: (561) 753-0554
FAX: (561) 753-0389

BROWARD COUNTY
PLANNING & ENVIRONMENTAL
REGULATION DIVISION
ENVIRONMENTAL RESOURCE
PERMIT & LICENSES
SWM No. 2000-117-5 ERL No. DF10-1031
ERP No. 06-02922-P-02 Exhibit No. 17

NOTE:
ELEVATIONS
ARE NGVD
NAVD (-)1.54'

Updated (September 4, 2020) Cost Estimate for the wetland mitigation area is as follows:

ITEM	ESTIMATED COST
Earthwork	\$50,500.00
Plant material including installation	\$40,400.00
Monitoring (5 yrs.)	\$20,000.00
Maintenance (5 yrs.)	\$12,200.00
Total	<u>\$123,100.00</u>

As required, 110% of the estimate (\$135,410.00) will be used for satisfaction of evidence of financial resources.